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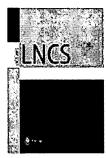
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Instrumentation Database for Performance Analysis of Parallel Scientific Applications

Book Series Lecture Notes in Computer Science

Publisher Springer Berlin / Heidelberg

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Volume Volume 1511/1998

Languages, Compilers, and Run-Time Book

Systems for Scalable Computers: 4th International Workshop, LCR'98, Pittsburgh, PA, USA, May 1998.

Selected Papers

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Jeffrey Nesheiwat¹, Boleslaw K. Szymanski¹

¹Rensselaer Polytechnic Institute Department of Computer Science Troy, NY 12180-3590, USA {neshj, szymansk}@cs.rpi.edu

Abstract

Parallel codes, especially scientific applications, have increased the need for performance analysis tools. In this paper we present an approach that addresses some of the difficulties inherent to the analysis of parallel codes. To this end we examine the three components that comprise performance analysis: instrumentation, visualization, and analysis. The essence of our approach is to use a database to capture instrumentation data. We discuss how this approach influences the design of performance analysis components. We further motivate our approach with an example using a sparse matrix vector product code. We conclude by discussing some of the key implementation issues and outlining future plans.

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W Waddington

J Klein

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Development of a high performance, memory based, relationaldatabase system using Ada

RS Birch, A Bolwell, JJ Maloney - Ada Applications and Environments, 1988., Third ..., 1988 ieeexplore.ieee.org

Page 1 TAB of Queensland Albion, Queensland. 4010. Australia. 2. 2.1 CH2470-3/8810000/0039\$01 .00 © 1988 IEEE 39 DEVELOPMENT OF ...

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Method and apparatus for parallelizing operations that create a table - all 3 versions »

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... Database statements that require write operations typi -cally include processing steps that ... the database cannot be completed due to deadlock, the transaction ... Cited by 13 - Related Articles - Web Search

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P McKenney

Partial-Order Methods for Temporal Verffication - all 7 versions »

P Wolper, P Godefroid - CONCUR'93: 4th International Conference on Concurrency ..., 1993

books.google.com

... we need to make precise the notions of program step and independent program steps. ...

we only consider the problem of detecting terminating (or deadlock) states. ...

Cited by 102 - Related Articles - Web Search

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RD Chamberlain - Proceedings of the 32nd ACM/IEEE conference on Design ..., 1995 -

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... accelerate the simula- tion loop by executing individual program steps on different ...

waiting rule) can lead to blocking and even deadlock; therefore, techniques ...

Cited by 30 - Related Articles - Web Search

Decidability Questions for Fairness in Petri nets - all 3 versions »

H Carstensen - STACS, 1987 - Springer

... The places outside of the dashed boxes will be used for all transformations of program

steps ... the net in figure 1 a firing of t would cause a deadlock of the ...

Cited by 6 - Related Articles - Web Search

A Perspective on Parallel Program Design - all 2 versions »

J Misra - Research Directions in High-Level Parallel Programming ..., 1992 -

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... program steps, ensures provides a mechanism to capture (a weak form of ... Everything

else—process, mes- sage, communication protocol, deadlock, etc.—has been ...

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Apparatus and method for achieving reduced overhead mutual-exclusion and

maintaining coherency in a ... - all 6 versions »

JD Slingwine, PE McKenney - US Patent 5,727,209, 1998 - Google Patents

... Contention: If processor 16A competes with processor procedures, checks, locks, **program steps**, or complexity to ^ ... **deadlock** as conventional mechanisms. ... Cited by 67 - Related Articles - Web Search

[PS] Untangling the Threads Reduction for a Concurrent Object-based Programming Model - all 4 versions »

WE Adams - 2000 - cs.utexas.edu

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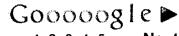
... calls. If it did, the service thread could block and prevent any further events from being handled, which could lead to **deadlock**. ...

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... the basic control flow of a SIMD program is sequential (but on vector data, data-par- allel), programming is easier, and no timing or **deadlock** problems occur ... Cited by 6 - Related Articles - Web Search



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O Wolfson

A Swami

H Young

T Saulpaugh

B Bruffey

The overhead of locking (and commit) protocols in distributed databases - all 3 versions »

O Wolfson - ACM Transactions on Database Systems (TODS), 1987 - portal acm.org ... structures, and the overhead of deadlock-free 2PL ... a transaction represents the

of program steps. ... A transaction leaves a consistent database, if it ...

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[PS] Untangling the Threads Reduction for a Concurrent Object-based Programming Model - all 4 versions »

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Method for external sorting in shared-nothing parallel architectures - all 3 versions »

AN Swami, HC Young - US Patent 5,845,113, 1998 - Google Patents ... al., "A Low Communication Sort Algorithm for a Parallel Database Machine", Proceed ... nism to avoid intra-transaction self-deadlock, which adds 5 numberofphysicall ... Cited by 9 - Related Articles - Web Search

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N Kalantery - US Patent 5,832,272, 1998 - Google Patents

... essence, for example large database 10 searching ... Organisation of deadlock-free communication and synchronisation ... serial label of the program steps from which ... Cited by 15 - Related Articles - Web Search

[воок] Fast Parallel Algorithms for Sorting and Median Finding

T Dachraoui - 1998 - collectionscanada.ca

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OM Nierstrasz - 1984 - iam.unibe.ch

... 5.2.4. Deadlock

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JM Campenhout, EH Debaere - 1990 - Mit Press

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TE Saulpaugh, BM Bruffey, RT Williams - US Patent 5,590,334, 1996 - Google Patents
... "Versions and Change Notification in an Object-Oriented **Database** System," 12 Jun. ...
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ICITATION] BIOTECH NOLOGY Study of Toxicological Mechanism of Moniliformin

E TspA - China Report: Science and Technology, 1979 - National Technical Information Service
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Apparatus and method for message queuing in a database system - all 3

J Newman

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C Smithies

S Chandra, D Gawlick, S Jain, H Rizvi, P Shah, A ... - US Patent 6,058,389, 2000 - Google **Patents**

L Shriberg

... 3 is a block diagram of a database system configured for use with the invention;

S Chandra

FIGS. 4A-1 and 4A-2 are flow diagrams of a Sequence Deviation process; FIG. ...

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H Sneed

... and apparatus for iteratively extending the results obtained from an initial query in a database - all 3 versions »

H BenHadda, JF Marcotorchino, D Otthoffer - US Patent 6,366,904, 2002 - Google Patents ... 28 contains the names of all the variables in the database, and the ... the qualitative type (top right and bottom left boxes), standard deviation index computing ... Cited by 2 - Related Articles - Web Search

A database program to archive and analyze current weather data

SH Parkin, JP Refling - Geoscience and Remote Sensing Symposium, 1996. IGARSS'96.' ..., 1996 - ieeexplore.ieee.org

... SF0 were captured until this deviation in format ... to per- form the various program steps repetitively on an unattended basis, Finally, the database portion of ... Web Search

Planning the reengineering of legacy systems - all 4 versions »

HM Sneed - Software, IEEE, 1995 - ieeexplore.ieee.org

... Other tools, such as database-schema, map, and report-format audi- tors ... individual components of an application, adjusted by the standard deviation, becomes the ... Cited by 109 - Related Articles - Web Search

Method and apparatus for facilitating recovery of patients in deep coma - all 2 versions »

MS John - US Patent 5,611,350, 1997 - Google Patents

... state, or derived from a database having a ... Those program steps that produce an improvement, as measured ... An overall multivariate measure of deviation, such as ... Citèd by 10 - Related Articles - Web Search

[PS] A unifying framework for Adaptation in Case-Based Reasoning - all 5 versions »

A Mille, B Fuchs, O Herbeaux - Workshop on Adaptation in Case-Based Reasoning, ECAI-96, ..., 1996 - kluedo.ub.uni-kl.de

... Each adaptation-item of the adaptation-case is presented with the deviation to reduce and the method ... Knowledge is managed through a database ... (program steps) ... Cited by 7 - Related Articles - View as HTML - Web Search

A Retrospective Study of Spontaneous Generalization in Speech-Delayed

Children - all 2 versions »

LD Shriberg, J Kwiatkowski - Language, Speech, and Hearing Services in Schools, 1987 - ASHA

... was unacquainted with both the **database** and the ... included simultaneous practice at several **program steps** during the ... 72 months, with a standard **deviation** of 20 ... Cited by 4 - Related Articles - Web Search

The Speech Disorders Classification System (SDCS) Extensions and Lifespan Reference Data - all 4 versions »

LD Shriberg, D Austin, BA Lewis, JL McSweeny, DL ... - Journal of Speech, Language and Hearing Research, 1997 - ASHA

... A pro- vides a technical review of **program steps**. ... tion assembled from these **database** samples be viewed ... statistics (mean, stan- dard **deviation**) when describing ... Cited by 54 - Related Articles - Web Search

<u>Device for implementing an interrupt distribution in a multi-computer system</u> - all 3 versions »

M Gronemeyer - US Patent 5,382,950, 1995 - Google Patents ... not failed, when these computers detect the **deviation** ... continue to work on matching **program steps** without ... disconnected, because the **database** of the computer ... Cited by 4 - Related Articles - Web Search

<u>System for generating worksheet files for electronic spreadsheets</u> - <u>all 3</u> versions »

SJ Dubnoff - US Patent 5,033,009, 1991 - Google Patents

... be stored in the format of files produced by a **database** 15 after the ... 8 a count (*CNT), minimum (*MIN), maximum (*MAX), standard **deviation** (*STD), and variance ... <u>Cited by 36 - Related Articles - Web Search</u>

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Comparison of application protocols

R Neumann - 2003 - freepatentsonline.com

... The percent deviation can also be presented. ... [0044] The programs 12 access the database

8 by ... Once all program steps have been processed, the programs 12 are ...

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Method and means for extracting fixed-pitch characters on noisy images with complex background prior ... - all 3 versions »

RA Lorie, J Mao, KM Mohiuddin - US Patent 5,915,039, 1999 - Google Patents ... This is according to whether the standard deviation of the local threshold ... or steps were implemented in several software modules plus a knowledge 45 database. ... Cited by 5 - Related Articles - Web Search

Conflict detection and resolution between moving objects - all 3 versions » A Inselberg - US Patent 5,058,024, 1991 - Google Patents

... r ji flow chart showing the program steps in implementing ... depending upon the degree of deviation from a ... indicated, obtain from a suitable database an avoidance ... Cited by 28 - Related Articles - Web Search

The Effects of Using a Nonprocedural Computer Language on Programmer **Productivity**

EC Harel, ER McLean - MIS Quarterly, 1985 - JSTOR

... are appropriate to the application, not the detailed program steps. ... Builders Inc., is a database management system ... Mean Standard Test N Ratio Deviation t-value ... Cited by 8 - Related Articles - Web Search

Method and system for the verification of handwritten signatures - all 2 versions »

CPK Smithies, JM Newman - US Patent 5,647,017, 1997 - Google Patents ... The system includes a database of signature templates storing verified signature information. ... Signature Verification Service Signatory Database 12 FIG. 1 ... Cited by 30 - Related Articles - Web Search

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(βοοκ) Reporting Computational Experiments with Parallel Algorithms: Issues, Measures, and Experts' ...

RS Barr, BL Hickman - 1992 - faculty.smu.edu

... thrills" have been achieved by some applications, such as database transaction proc- ... instructions carried out by a computer (that is, program steps), while a ...

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Database

M Swindells, J Thornton, D Jones - 2003 - freepatentsonline.com ... These probabilities may be calculated from a non-redundant database of 270,000 ... Thresholds that represent distances of Standard Deviation values from the mean ... Cached - Web Search

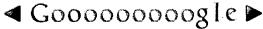
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EVENT DATA ... 1080 1070 CLASSIFICATION TO TRAINING DATABASE ... Cited by 11 - Related Articles - Web Search

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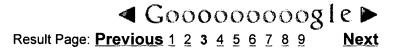
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... The undetected or inadvertent deviation from established standard ... As the program steps through each step of the ... each measurement may be logged into a database. ... Cached - Web Search

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CS Hutchins - US Patent 5,291,416, 1994 - Google Patents

... These events are of two types: those embedded in the machine tool part pro -gram, which may be ordinary program steps or special event markers; and those which ... Cited by 12 - Related Articles - Web Search



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RS Vincent - US Patent 6,292,215, 2001 - Google Patents

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DATABASE CONVERSION

PROGRAM (FIG. 10) x PC 323 310 POSITIONAL DATABASE MOVIE MAPPER PROGRAM 325 ...

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DR GREENING, JB HEY - 2001 - freepatentsonline.com

... of claim 13, wherein computer program steps for performing ... known methods, such as a database select operation ... a confidence level or standard deviation with each ... Cached - Web Search

A DIRECT-SEARCHER Automatic System (Version 4) Running on Windows Personal Computers - all 3 versions »

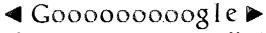
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(A) ...

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... the order does matter, even if there are no dependencies in these two program steps. ...

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... In a simulation result database, there is a table for ... menu option is selected, the Simulator program steps forward to ... a mean of 3 and a standard deviation of 1 ...

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Media (Hard Disk) Media (Hard Disk) Products A- /x ^ Figure 11 ...

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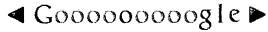
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J Newman

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WL Patterson, SPACE AND NAVAL WARFARE SYSTEMS ... - 2001 - nosc.mil

C Smithies

... Steps Comments 1 Start AREPS by double clicking the AREPS icon or by clicking the ...

L Shriberg

3 If running AREPS for the first time, populate your EM system database. ...

S Chandra H Sneed

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JB MOETTELI - 2000 - freepatentsonline.com

... of that execution upon completion of the program steps. ... files, movie files, or database search engines ... therefore nonordinary, a conscious deviation from the ...

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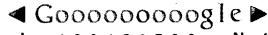
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